Monday, 3/6/2006 1:48:19 PM

Kim Johnston

**Process Sheet** 

Customer

: CU-DAR001 Dart Helicopters Services

**Job Number** : 26058

**Estimate Number** 

: 10298

P.O. Number

: NA

This Issue Prsht Rev.

: 3/6/2006 : NC

: NIA : 25171

S.O. No. : N/K

: PURCHASED PARTS

**Drawing Name** 

Part Number **Drawing Number**  : D25773 . D2577 REV E

...: WEARPLATE

Project Number Drawing Revision

: N/A

Material **Due Date**  : NIA

: 3/31/2006

Written By

First Issue

**Previous Run** 

**Checked & Approved By** 

Comment

: Est:

Re-format; Incorporated D2577-101/-13 KJ/

RF

**Additional Product** 

Job Number:



Seq. #:

Machine Or Operation:

Description:

1.0

PG



**PURCHASING** 



Comment: PURCHASING

Issue P/O: 739

Email or Ship DXF file to vendor

Laser Cut per Dwg D2577 flat pattern D2577-101

Material release note required

D25773F 2.0

Wearplate Aft

c.Log/03/07



Comment: Qty.: 1.0000 U(s)/Unit

Total:

50.0000 U(s)

WEAR PLATE FWD

3.0 PACKAGING 1 PACKAGING RESOURCE #1





Receive & Inspect For Transit Damage Ensure material release note is attached

4.0



QC6

Comment: DIMENSIONAL CHECK

Inspect dimensions per template D2577-101T

5.0



Comment: SMALL & MEDIUM FAB RESOURCE 1

Deburr



# **Dart Aerospace Ltd**

W/O:			WORK	ORDER CHANGES					
DATE	STEP		PROCEDURE CHANGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		· .		•					
	-	. 3							
							$\overline{}$	1	

Part No: _	PAR #:	_ Fault Category:	NCR: Yes No DQA:	Date: 04/05/08
			QA: N/C Closed:	Date:

NCR:		V	VORK ORD	ER NON-CONFORMANC	E (NCR)			
		Description of NC		Corrective Action Section B		Verification	Ánnessal	Ammrayal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
				•				- -
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NOTE: Date & initial all entries

Monday, 3/6/2006 1:48:19 PM Date: User: Kim Johnston **Process Sheet** Drawing Name: WEARPLATE Customer: CU-DAR001 Dart Helicopters Services Job Number: 26058 Part Number: D25773 Job Number: Sea. #: Machine Or Operation: Description: NC BRAKE 6.0 BRAKE NC Comment: NC BRAKE 04.04.20 1-Form on brake as per Dwg D2577 using DT8155 and DT8179 2-Identify as D2577-3 INSPECT WORK TO CURRENT STEP 7.0 QC5 **Comment: INSPECT WORK TO CURRENT STEP** LARGE FAB LARGE FABRICATION RESOURCE 1 8.0 Comment: LARGE FABRICATION RESOURCE 1 Weld hard surface using DT8308A & DT8308B as per Dwg D2577 Description in 100 237 Batch Qty M100452 M.F. 06.05.03 A/R 7560 Hardcoat Rod VISUAL WELDING INSPECTION 9.0 QC9 Comment: VISUAL WELDING INSPECTION 10.0 POWDER COATING POWDER COATING Comment: POWDER COATING Powder Coat Grey Sandtex (Ref: 4.3.5.6) as per QSI 005 4.3 11.0 QC3 INSPECT POWDER COAT/CHEMICAL CONVERSION Comment: INSPECT POWDER COAT/CHEMICAL CONVERSION 06 05 08 12.0 PACKAGING RESOURCE #1 Comment: PACKAGING RESOURCE #1 Identify and Stock Location: 13.0 DOCUMENT CONTROL Comment: DOCUMENT 06/05/08 Inspection Level 21 ( 06.05.0

Form: rprocess

Page 2

Dart	Aeros	pace	Ltd
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W/O:		WORK ORDER CH	IANGES				
DATE	STEP	PROCEDURE CHANGE	Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
		· · · · · · · · · · · · · · · · · · ·					

Part No:	PAR #: _	Fault Category:	NCR: Yes No I	DQA:	Date:
			QA: N/C Cld	osed:	Date:

NCR:		W	ORK OR	DER NON-CONFORMANCE	(NCR)			
D.4.T.F.	0.750	Description of NC		Corrective Action Section B		Verification	Annroyal	Annroyal
DATE	STEP	Section A	Initial Chief Eng	Action Description Chief Eng	Sign & Date	Section C	Approval Chief Eng	Approval QC Inspector
06-05.03	8	He hard cont touched up not enough penetration into the wear plate, cousing some of the hord cont to break off.		reward the hond cont As per Q 51 004 & Dug 2577 Rev. E.	m.F.	M 0405/03		16050

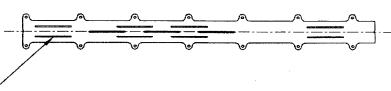
NOTE: Date & initial all entries

Dart Ae	rospace l	Ltd								
W/O:			WC	ORK ORDER CHA	NGES	•				
DATE	STEP	PRO	OCEDURE CHA	NGE		Ву	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector
-										
					•					
Part No	:	PAR #:	Fault Cate	gory:	NC	R: Yes	No <b>DQ</b>	A:	Date:	
						QA: N	C Close	d:	Date:	
NCR:		.\	WORK ORDI	ER NON-CONFOR	RMANCE	(NCR	)	- · · · · · · · · · · · · · · · · · · ·		
		Description of NC		Corrective Action	Section B		Verific	ation	Approval	Approval
DATE	STEP	Section A	Initial Chief Eng	Action Descripti Chief Eng	on	Sign & Date	Secti		Chief Eng	QC Inspector
					•					
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NOTE: Date & initial all entries

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7560 HARDCOAT WELD
4.0 LONG
0.063 TO 0.125 HIGH
(TYP. 11 PLS.)
WELD AFTER BENDING AS
ILLUSTRATED PER DT8308—



D2577-1 & D2577-3 WEARSHOE

MAKE FROM D2577-11 AND D2577-13 RESPECTIVELY FINISH: POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED





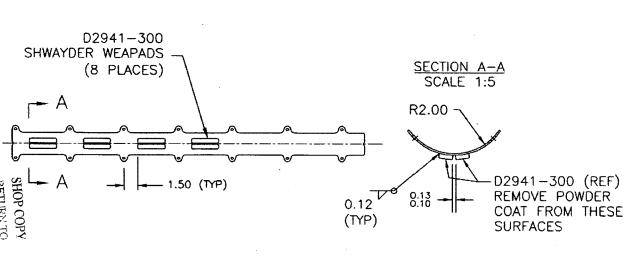


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ADD D2577-101/-11/-13 INCORPORATE DE09176	CORRECTED DIMENSIONS OF	CHANGE HOLES TO OBROUN	ADD HARDCOAT WELDS	NEW ISSUE	WEARSHOE	THILE	D2577	DRAWING NO.	HAWKESBURY, ONTARIO, CA	DART AFROSPACI

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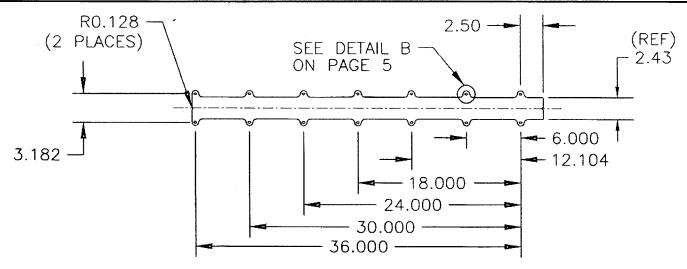


<u>D2577-21 & D2577-23 WEARSHOE</u>

MAKE FROM D2577-11 AND D2577-13 RESPECTIVELY

FINISH: POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



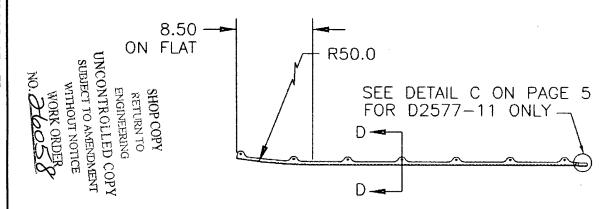
D2577-101 FLAT PATTERN

BREAK ALL SHARP CORNERS 0.010 TO 0.020

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570

SERIES STEEL 0.063 THICK

TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED



<u>D2577-11 & D2577-13 LONGITUDINAL BEND</u>
MAKE FROM D2577-101
TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED





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WEARSHOE	חורצ .	02577	DRAWING NO.	HAWK

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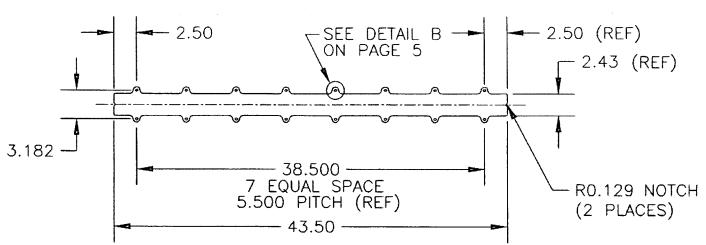
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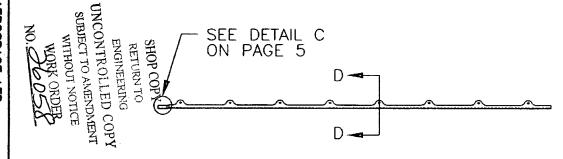
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## D2577-5 FLAT PATTERN



## D2577-5 LONGITUDINAL BEND



# D2577-5 WEARSHOE

BREAK ALL SHARP CORNERS 0.010 TO 0.020

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570

SERIES STEEL 0.063 THICK

POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3 TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED

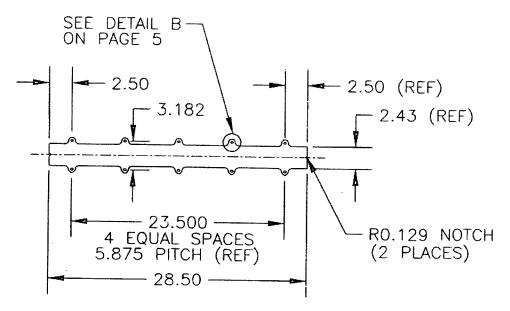




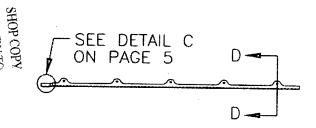


DESIGN	DRAWN BY	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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*	¥	D2577 SHEET 3 OF 5	5
DATE		TITLE SCALE	וייו

# D2577-7 FLAT PATTERN



D2577-7 LONGITUDINAL BEND



D2577-7 WEARSHOE

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ENGINEERING RETURN TO

WITHOUT NOTICE

BREAK ALL SHARP CORNERS 0.010 TO 0.020

MATERIAL: AISI 1010-1025 OR ASTM A36/A366/A569/A570

SERIES STEEL 0.063 THICK

POWDER COAT GREY (4.3.5.6) PER DART QSI 005 4.3 FINISH: TOLERANCES ARE PER DART QSI 018 UNLESS OTHERWISE NOTED





WEARSHOE		00.09.22
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HAWKESBURY, ONTARIO, CANADA	7,	#1
DART AEROSPACE LTD	DRAWN BY	DESIGN

4 OF 5

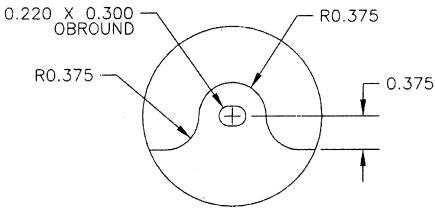




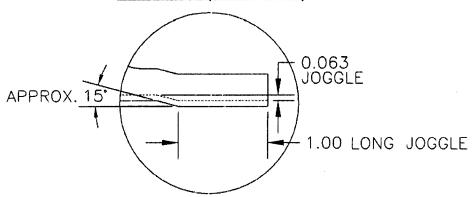
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## DETAIL B (SCALE 1:1)

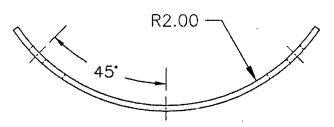




#### DETAIL C (SCALE 1:1)



# SECTION D-D (SCALE 1:1)



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P0439

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#### TEST CERTIFICATE

Ret 5748/25194

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CUSTOMER	Wilkinson	*50916DF0C1							-1	SPE	PECIFICATION ASTRIALOSS CS Type A									CERTIFICATE No. TCL32432					
CUSTONER ON	ONER ON 90-21N-963							$\mathbb{Q}$	PRO	DUCT	T CRA WIDE COIL						PAGE 1 of 1								
MILON 9766							DIME	HSIO	<b>48</b>	8 0.055" × 48" × Celi								DATE 29 November 2005							
		CHEMICAL COMPOSITION PERGEN						CENT	et						MECHANICAL TESTS (TEST SPECIFICATION -					ASTMA370 )					
PACK NUMBER	HEAT No	С	Si	Mn	P	5	Си	Ni	Cr	Mo	٧	Nb	TI	Al	В	N2	CE( )	BEND	YIELD	T.S.	%ELONG	HARDNESS	s r	LENGTH	
	next No		×100						x1	1000					x10	000	x100	1 <b>80</b> °		l	G.L.=	HRB	( )	(feet)	
R9-470783-00	645502	6		20	14	21	11	17	21	2	6	1	1					Good				57		1532	
R9-470784-00	645502	6	1	28	14	21	11	17	21	2	- 6	1	1	1				Good		·		57		1444	•
R9-470785-00	645530	6	1	20	11	21	12	17	22	2	5	1	1	1		İ	l ·	Good	[		1	53		1558	
R9-470786-00	645530	6	8	20	11	21	12	17	22	2	5	1	1					Good				53		1499	
R9-470787-00	645530	6	1	20	11	21	12	17	22	2	5	,	- 1	1				Good	1			53		1558	
R9-470788-00	645530	6	1	20	11	21	12	17	22	2	5	1	1				1	Good		1		53	1	1545	
R9-470789-00	645502	•		20	14	21	11	17	21	2	6	1	3					Good	1			56	1	1558	
R9-476790-00	645502	6	1	20	14	21	13	17	21	. 2	6	1	1	1	1			Good				56	1	1558	
R9-470791-09	645701	5	TR	. 19	11	15	12	17	23	3		1	1					Good				50		1558	
R9-478792-08	645701	5	TR	19	11	15	12	17	23	3		1	. 1	1				Good				50		1444	
R9-470793-00	645701	5	TR	19	11	15	12	17	23	3	8	1	1	-]	Ç	ľ		Good				53		1558	
R9-470794-00	645701	5	TR	19	11	15	12	.17	23	. 3	- 4	1	1					Good			1	53		1444	
R9-471202-00	645502	6.	1	20	14	21	11	17	21	2	6	1	1	1				Good			1	57		1631	
R9-471203-00	645502	6	. 1	20	14	21	111	17	21	2	6	1						Good			1	57		1604	
R9-471204-06	645502	6.	1	20	14	21	H	17	21	2	- 6	1	. 1					Good			1	58		1604	
R9-471205-00	645502		1	20	14	21	11	17	21	2		1		132	14.52		1	Good	198	1	14.3	58	1 302	1539	

YELD	GAUGE LEN	GTH (G.L.)		PLASTIC ST	TRAIN RATIO (r)	IMPACT TEST	(C)=5mm x 5mm	CARBON EQUIVALENT VALUE (CE)			
	(A)=200mm (B)=50mm	(C)=80mm (D)=5.65 7 So	(E)=2" (F)=8"	(A)=0 (B)=190	(C)=145 (D)=(10+190+2145) / 4	(A)=10mm x 10mm (B)=7.5mm x 10mm	(D)=2.5mm x 10mm (E)=5mm x 10mm	(A)=C+Mn/6 (B)=C+Mn/6+(Cr+V+Mo)/5+(Cu+Ni)/15	(C)=C+Mn/6+Si/24 (D)=		

WE HEREBY CERTIFY THAT THE MATERIAL DESCRIBED HEREIN HAS BEEN TESTED AND INSPECTED WITH SATISFACTORY RESULTS IN ACCORDANCE WITH THE REQUIREMENTS OF THE ABOVE SPECIFICATION

APPROVED Autish Mistage OC METALLURGIST

